

ABSTRACT OF THE DISCLOSURE

A manufacturing method for an evaporator made of aluminum alloy. First, a three-layer aluminum alloy plate having a core made of Al-Mn alloy, a sacrifice anode layer made of aluminum alloy which is electro-chemically base with respect to the core and clad on one side of the core, and a brazing layer made of Al-Si alloy and clad on the other side of the core is uniformly rolled to be work-hardened. Next, the thin work-hardened aluminum alloy plate is bent to form a tube so that the sacrifice anode layer is disposed outside the tube to face air and the brazing layer is disposed inside the tube to face refrigerant. Then, plural tubes and outer fins are alternately laminated and are integrally brazed to tanks to form the evaporator. As a result, a thickness of the tube is reduced without deteriorating corrosion resistance of the tube, thereby decreasing a weight and a size of the evaporator.